

Abstract

A sound/vibration resonance separating device for resonance-separating and instantly visualizing sound and vibration having one of various frequencies by fixing vibrators such as a plurality of piano wires to a rigid body. In other words, the device is an auditory model for executing Fourier transform instantly. In Fig. 2, numerals 1 - 20 designate vibrators having various natural vibrations. When a sound is inputted from a microphone for converting it into an electric signal to a device body, as shown in Fig. 4, the electric signal is amplified/controlled by an electronic circuit (28) and outputted to a speaker (24) acting as a vibration converting device, and the sound becomes amplified longitudinal vibration to vibrate a rigid body (21) longitudinally. The vibration is transmitted to the vibrators (1 - 20) fixed to the rigid body and having the natural vibration, and only the vibrator corresponding to the frequency vibrates. A volume knob (25) is provided for adjusting the amplitude of the vibration. A frequency control knob is for controlling the vibration frequency of sine wave.